
GPS AutoSteer System Installation Manual



Supported Vehicles

John Deere Sprayers

4720	4630
4730	4830

AutoTrac Ready

LEGAL DISCLAIMER

Note: Read and follow ALL instructions in this manual carefully before installing or operating the AutoSteer system.

Note: Take careful note of the information in the Safety Information section and throughout this manual.

The manufacturer disclaims any liability for damage or injury that results from failure to follow the instructions and warnings set forth herein.

Please take special note of the following warnings:

1. There is NO obstacle avoidance system included in the manufacturer's product. Therefore, users must always have an operator on the equipment when the AutoSteer system is in use to look for any obstacles including people, animals, trees, ditches, buildings, etc.
2. During installation of the AutoSteer system and during the Calibration and Tuning processes the vehicle's wheels turn from side to side and the vehicle moves. Be sure that all people and obstacles are clear of the vehicle before installation, calibration and tuning, or use of the AutoSteer system.
3. Use of the AutoSteer system is NOT permitted while equipment is on roads or in public areas. Follow the instructions set forth below for ensuring that the system is OFF before driving on roads or in public areas.

Special Requirements

Tools

This list consists of the tools required to complete the installation. The installer is assumed to have a complete set of common installation tools.

10mm socket and ratchet	10mm wrench	1/2" socket and ratchet
13mm socket and ratchet	13mm wrench	9/16" socket and ratchet
17mm socket and ratchet	17mm wrench	15/16" socket and ratchet
18mm socket and ratchet	18mm wrench	#1 Phillips screwdriver
24mm socket and ratchet	24mm wrench	#2 Phillips screwdriver
15/16" socket and ratchet	15/16" wrench	#2 Phillips stubby screwdriver
Tape measure 12ft (3.6M) minimum		



Safety Information



Warning Alerts

The AutoSteer system installer and manufacturer disclaim any responsibility for damage or physical harm caused by failure to adhere to the following safety requirements:



- As the operator of the vehicle, you are responsible for its safe operation.
- The steering system is *not* designed to replace the vehicle’s operator.



Note: Verify that all screws, bolts, nuts and cable connections are tight after the final installation of the AutoSteer system on the vehicle.

	 WARNING
	To avoid electrical shock hazards, remove the Roof Module from the vehicle before driving under low structures or low electrical power lines.

	 WARNING
	To prevent injury from falling, ensure you are in a stable position on the vehicle when installing or removing the Roof Rail and Roof Module. If the vehicle does not provide a safe platform, use a ladder to safely access the vehicle roof while installing or removing the Roof Rail and Roof Module.



	 WARNING
	To prevent accidental death or injury from being run over by the vehicle, never leave the vehicle's operator chair with the AutoSteer engaged.



	<div> WARNING</div> <p>To understand the potential hazards associated with the operation of AutoSteer equipment read the provided documentation before installing the AutoSteer system on a vehicle.</p>
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	<div> WARNING</div> <p>To prevent the accidental engagement of AutoSteer and loss of vehicle control while driving on roads, shut down the AutoSteer system (exit the program). Never drive on roads or in public areas with the AutoSteer system turned on.</p>
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Caution Alerts



The AutoSteer system installer and manufacturer disclaim any responsibility for damage or physical harm caused by failure to adhere to the following safety requirements:

	 CAUTION
	The Roof Module must be removed when transporting or driving the vehicle at speeds above 30 mph (50 km/h). The Roof Module can possibly detach due to wind loads at higher speeds.

	 CAUTION
	The AutoSteer system does not detect obstacles in the vehicle's path. The operator must observe the path being driven in order to avoid obstacles.

	 CAUTION
	When engaged, the AutoSteer system controls only the steering of the vehicle. The operator must control the speed of the vehicle.

	 CAUTION
	The AutoSteer system must be powered OFF when installing or removing the Roof Module.

	 CAUTION
	The Roof Module must always be firmly secured to the Roof Rail using the hardware whenever the vehicle is in operation to prevent the Roof Module from releasing from its bracket and falling.

Vehicle Requirements

The vehicle steering and hydraulic systems must be in good working order before installing the AutoSteer system. Check for loose or worn parts. Before installing the AutoSteer system drive the vehicle and confirm that it steers straight and the wheels can be turned from lock to lock. Check the steering system hydraulic hoses and connections to ensure there are no oil leaks.

The vehicle electrical system and battery must be in good working order.

The vehicle must be AutoTrac ready. Non-AutoTrac ready model vehicles require a different installation kit. Contact your AutoSteer dealer for the correct installation kit.

The vehicle should be fully cleaned before installing the AutoSteer system. A clean vehicle will improve the overall installation and cable routing. It is important to clean the area around the steering unit (Orbitrol) under the cab and behind the rear cab cover.

Important Information

Note: Verify that all screws, bolts, nuts and cable connections are tight after the final installation of the AutoSteer system on the vehicle.

Technical Support

Refer to your owner's manual for technical support information.

Contact Information

Refer to your owner's manual for contact information.

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Installation Overview

This **Installation Overview** chapter contains part numbers, kit overview diagram, cabling diagram and the installation procedure for the John Deere Sprayer AutoTrac Installation Kit.

- *Vehicle Inspection*
- *Installation Procedure Outline*
- *Kit Overview*
 - *AutoSteer Kit Assemblies*
 - *Bracket Kit*
 - *Termination Kit*
- *Cable Diagram*

This installation guide describes the installation of the AutoSteer system on all the John Deere Sprayer AutoTrac series vehicles listed on the front cover. They all share the same top-level AutoSteer installation kit PN: 188-0029-01.

Note: The vehicles supported by this manual do not require an AutoSteer Wheel Angle Sensor assembly. The factory installed Kingpin sensor provides steering wheel position data to the AutoSteer system.

Vehicle Inspection

Before AutoSteer system installation confirm the vehicle steering system is in good working order. Also, ensure the following system operations and components:

- Check to see if you can turn the front wheels from lock to lock.
- Ensure the vehicle steers straight.
- Check for loose or worn steering components.
- Ensure the hydraulic fluid level is correct.
- Service the vehicle if the steering is not in good working order.
- Confirm the vehicle is AutoTrac¹ Ready and has the factory installed steering valve.

Note: If you are installing an electric steering wheel actuator such as OnTrac II, skip the SA Module, Steering Valve connection and System Cable connection installation provided in this manual. Refer to your electric steering product manual for additional instructions.

1. AutoTrac is a trademark of Deere and Company.

Installation Procedure Outline

Note: The system interconnect cable diagram in the *Cable Diagram* on page 7 section of this chapter shows the AutoSteer electrical connections.

1. Verify shipped components.
2. Install the SA Module.
3. Install the Roof Rail on the cab roof.
4. Install the Roof Module on the Roof Rail.
5. Install the SA Module harness and route cables to the various sensors.
6. Route SA module data and power cable towards the cab.
7. Install the display bracket and the RAM mount ball inside the cab.
8. Install the display using a RAM mount arm.
9. Install the main data harness and route cables to Roof Module and power connector.

Note: Instructions for connecting the vehicle kit cables to the display can be found in the display owner's manual.

10. Connect the main harness to the display harness.
11. Connect the main harness to the SA Module harness.
12. Verify all connectors are properly coupled and secured.
13. Power ON the AutoSteer system.
14. Calibrate the vehicle.
15. Tune the vehicle.
16. Verify the system has been installed properly and operates satisfactorily.

Kit Overview

Note: All the John Deere AutoTrac series vehicles listed on the front cover share the same top-level AutoSteer installation kit PN: 188-0029-01.

AutoSteer Kit Assemblies

Figure 1-1 AutoSteer Kit Components (PN: 188-0029-01)

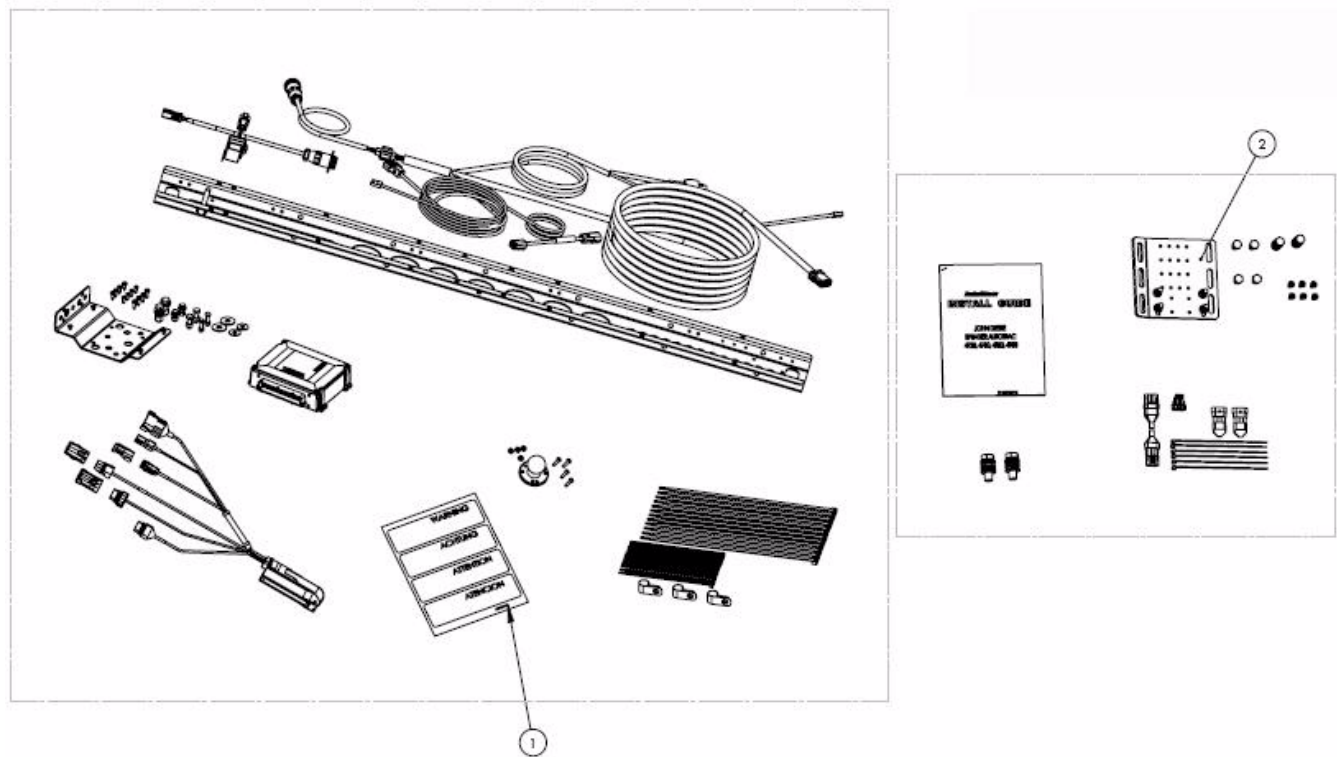


Table 1-1 Installation Kit Components (PN: 188-0029-01)

Item	Component	Part Number
1.	AutoTrac Installation Kit	153-0002-01
2.	Display Bracket Kit	152-0058-01

AutoSteer Installation Kit

Figure 1-2 AutoSteer Installation Kit Components (153-0002-01)

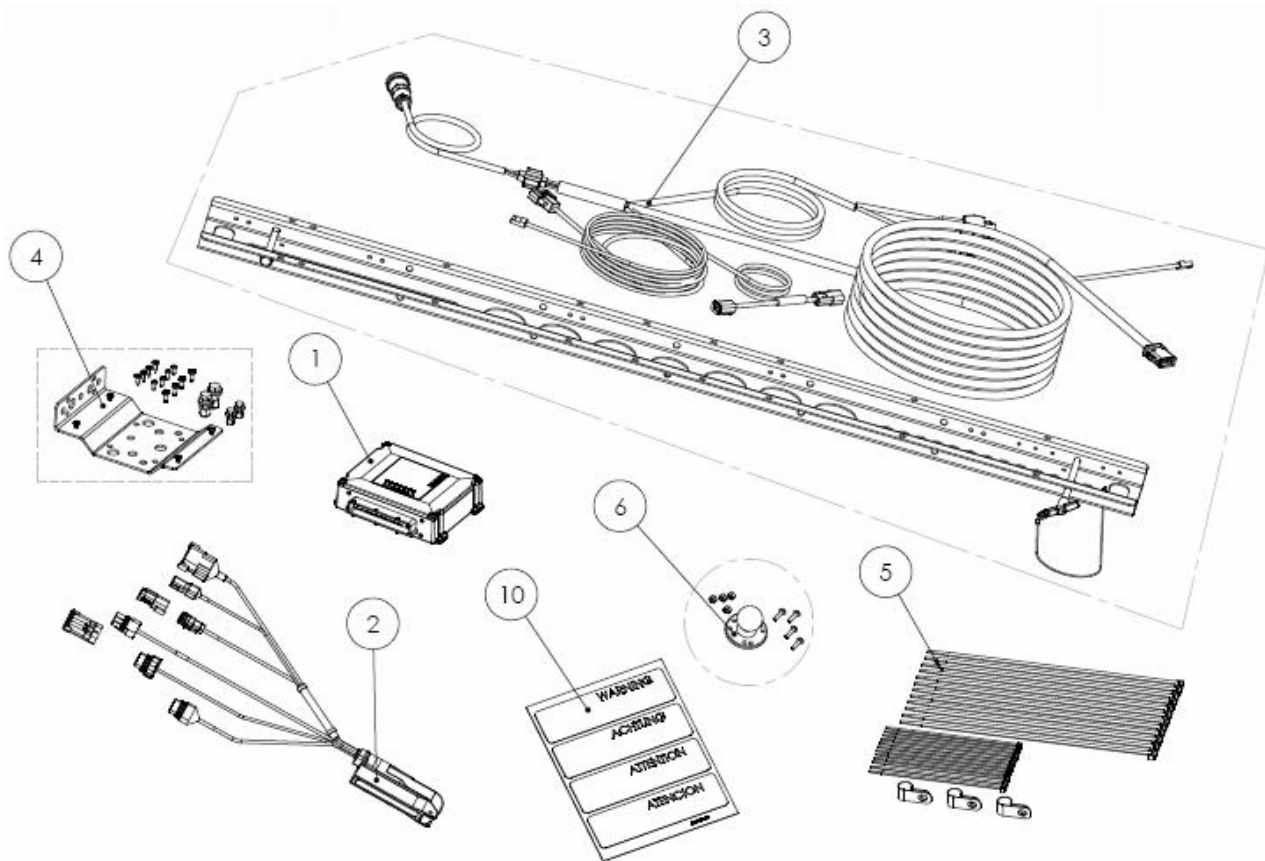


Table 1-2 AutoSteer Kit Components (PN: 153-0002-01)

Item	Component	Part Number
1.	SA Module	200-0206-01
2.	SAM Harness	201-0240-02
3.	Common Installation Kit	200-0497-02
4.	SA Module Bracket Assembly	200-0190-01
5.	Mounting Hardware	200-0076-01
6.	Display Mounting Base Assembly	200-0508-01
10.	Warning Labels	603-0074-01

Bracket Kit

Figure 1-3 Bracket Kit Components (PN: 152-0058-01)

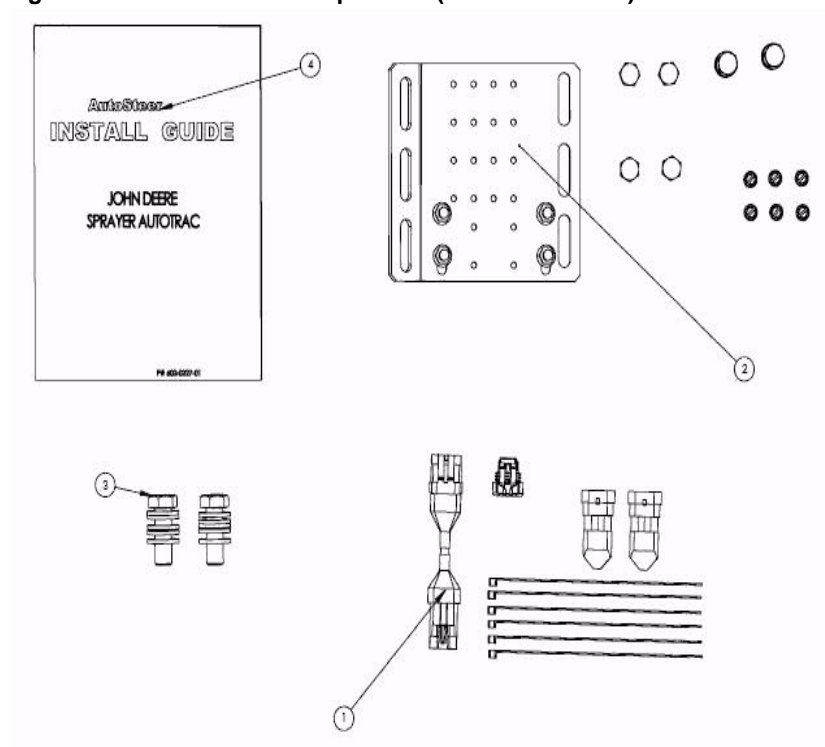


Table 1-3 Bracket Kit Components (PN: 152-0058-01)

Item	Component	Part Number
1.	Termination Kit	200-0366-01
2.	Display Bracket	200-0469-02
3.	Roof Module Bolt Kit	200-0238-01
4.	Installation Manual	602-0227-01

Termination Kit

Figure 1-4 Termination Kit Components (PN: 200-0366-01)

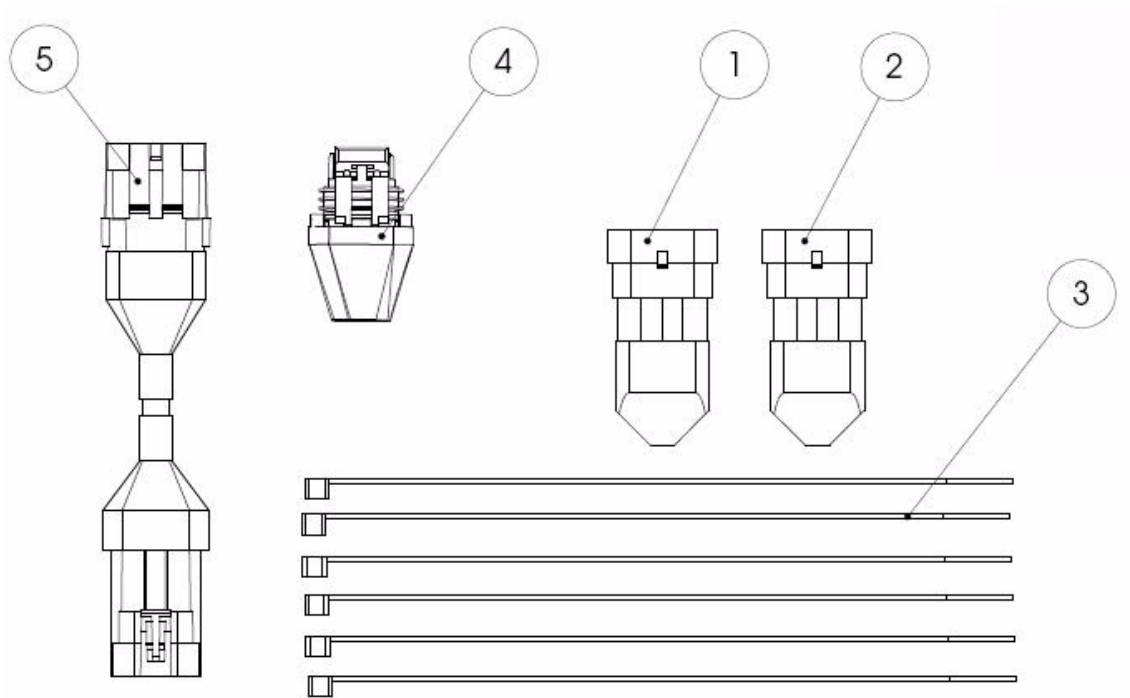
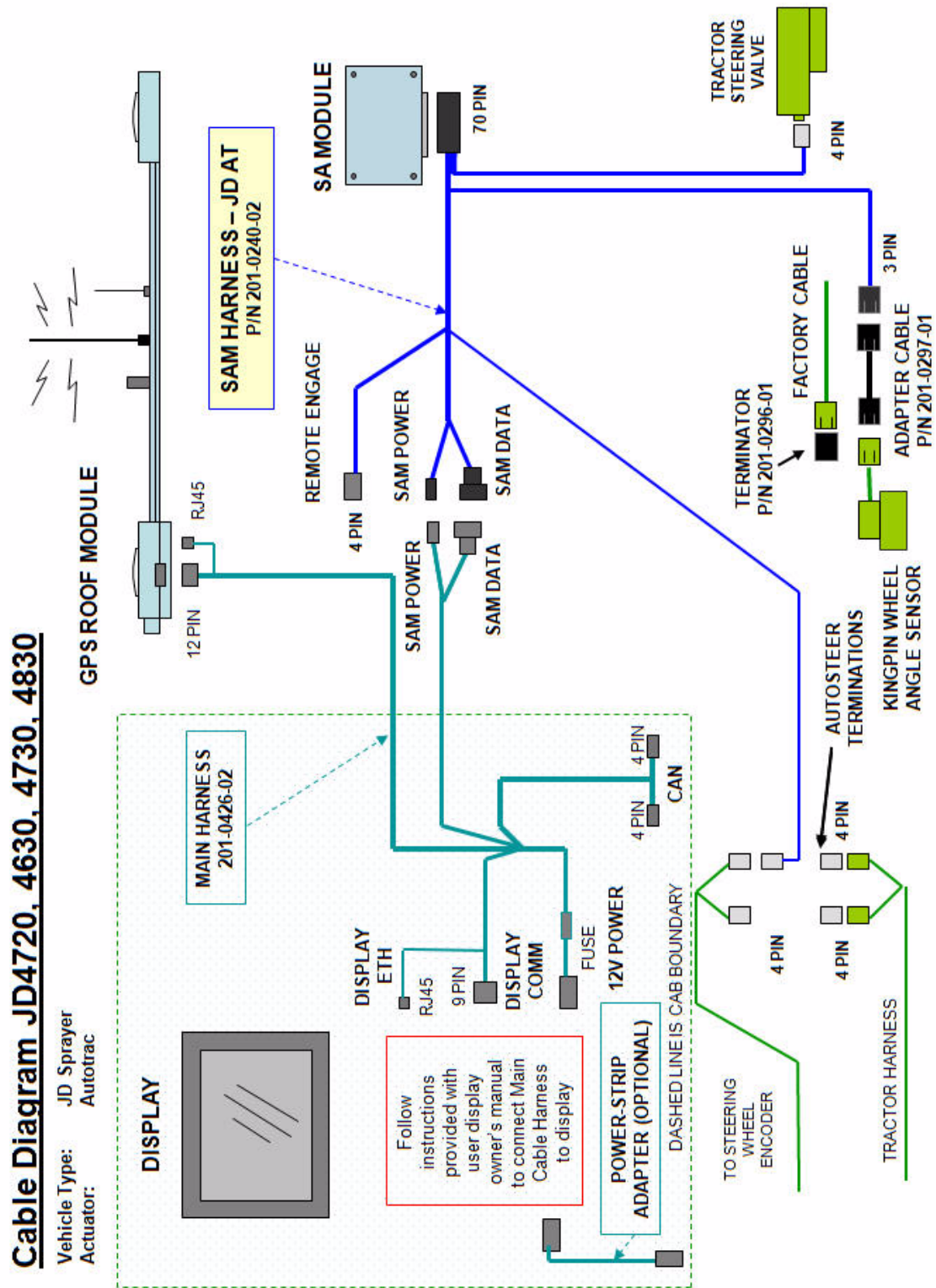


Table 1-4 Termination Kit Components (PN: 200-0366-01)

Item	Component	Part Number
1.	Steering Encoder Terminator Plug (High)	201-0241-01
2.	Steering Encoder Terminator Plug (Low)	201-0242-01
3.	Cable Ties	500-0015-01
4.	Cable Terminator	201-0296-01
5.	Wheel Angle Sensor Adapter Cable	201-0297-01

Cable Diagram



SA Module Installation

This **SA Module Installation** chapter contains information in the following sections:

- *Mount the SA Module Bracket*
- *Mount the SA Module*

Mount the SA Module Bracket

Note: The SA Module may be installed under the cab or other alternative positions. If an alternative location is required, choose a location where the SA Module can be protected from damage from moving parts or crop debris and excessive moisture from weather and cleaning equipment.

1. Locate an appropriate position for mounting the SA Module. See *Figure 2-1*.

Figure 2-1 SA Module Mounting Location



Mount the SA Module Bracket

2. Open the front bash plate by removing the clip retaining the pin and removing the pin. See *Figure 2-2*.

Figure 2-2 SA Module Mounting Location



Retaining Clip and Pin

3. The SA Module mounting location is shown in *Figure 2-3*.

Figure 2-3 SA Module Mounting Location



Mounting Location

4. Prepare the SA Module bracket for installation by attaching two screws on the "L" bracket side of the bracket.

Note: Do not tighten screws. Leave enough space for the SA Module to fit beneath the screws.

Figure 2-4 SA Module Bracket Screws



5. Remove the bolt and nut as shown in *Figure 2-5*.

Figure 2-5 Removing Existing Bolt for SA Module Bracket Mounting



6. Place the SA Module bracket then re-install the bolt and nut and tighten as shown in *Figure 2-6*.

Figure 2-6 SA Module Bracket Mounted



SA Module Mounting Screws

SA Module Bracket Bolt

Mount the SA Module

1. Slide the SA Module into place to mount the SA Module to the bracket.
2. Mount it by installing the other two screws and tighten all four with a #2 stubby Phillips screwdriver to secure the SA Module. See *Figure 2-7*.

Note: *Figure 2-8* and *Figure 2-9* show the correct and incorrect SA Module installation orientation.

Figure 2-7 SA Module Installed



Mounting Screws
(two more on opposite side)

Figure 2-8 Correct SA Module Orientation

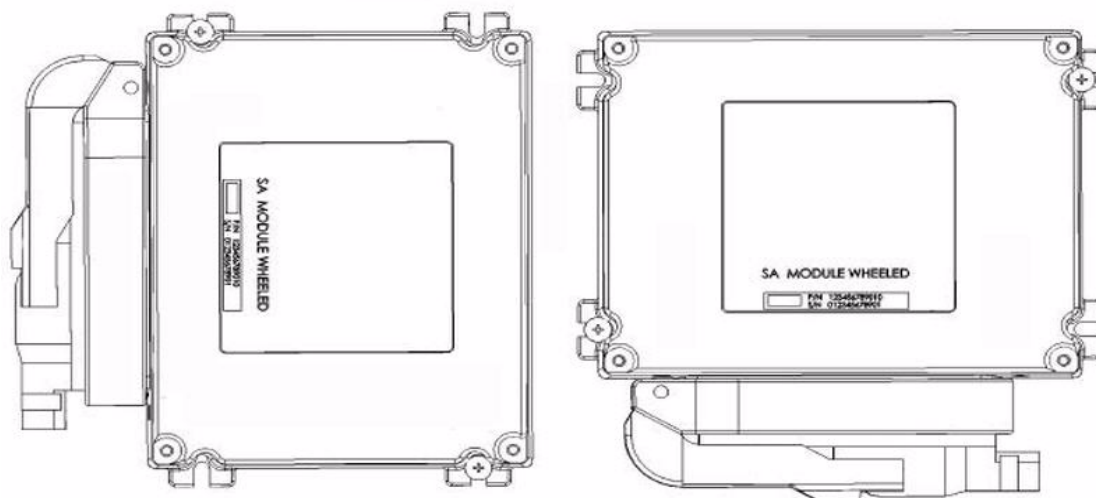
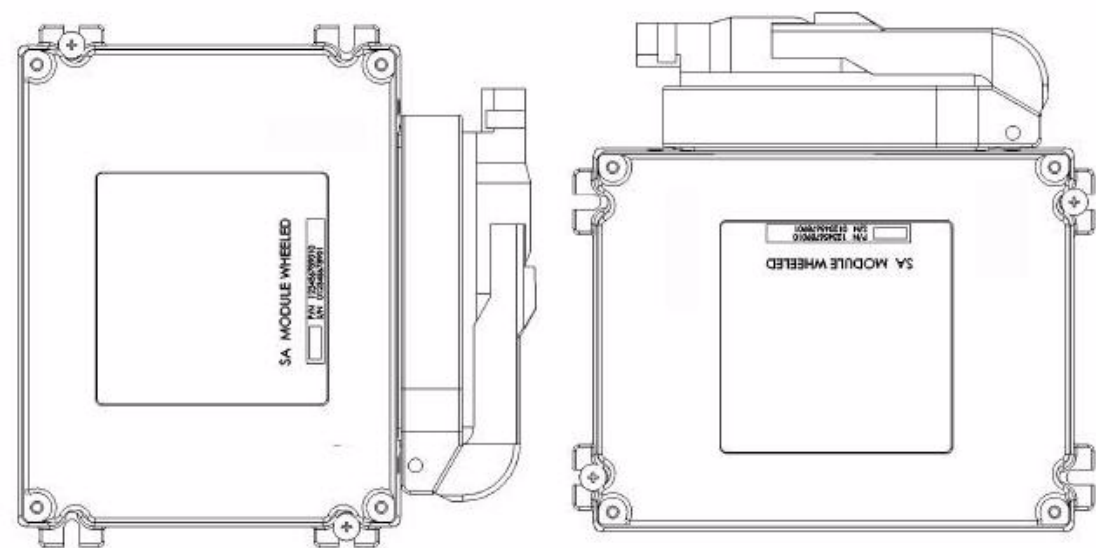


Figure 2-9 Incorrect SA Module Orientation




Roof Module Installation

This **Roof Module Installation** chapter contains information in the following sections:

- *Safety Notes*
- *Roof Module Installation*

Safety Notes

- The AutoSteer system must be powered OFF when installing or removing the Roof Module.
- The Roof Module must always be firmly secured to the Roof Rail using the hardware whenever the vehicle is in operation to prevent the Roof Module from releasing from its bracket and falling.
- The Roof Module must be removed when transporting the vehicle at speeds above 30 mph (50 kph).
- Ensure you are in a stable position on the tractor platform or ladder when removing the Roof Module, so that you do not fall or drop the Roof Module.

	<p style="text-align: center;">⚠ WARNING</p> <p>To prevent injury from falling, ensure you are in a stable position on the vehicle when installing or removing the Roof Rail and Roof Module. If the vehicle does not provide a safe platform, use a ladder to safely access the vehicle roof while installing or removing the Roof Rail and Roof Module.</p>
---	--

Roof Module Installation

1. Locate the two bolts on the cab roof. See *Figure 3-1*.
2. Remove the two bolts using a 24mm socket and ratchet. See *Figure 3-1*.

Note: The bolts can be discarded. Leave the existing washers on top of the rubber gaskets.

Figure 3-1 Mounting Bolt Locations



Note: If the cab has a radio antenna as shown in *Figure 3-1*, the roof module needs be installed approximately 2 inches (50mm) to the right of center to allow the antenna to stand up and move past the roof module handle.

3. Place 4 of the flat washers provided with the installation kit on top of the existing washer on both bolt holes. See *Figure 3-2*.
4. Place the Roof Rail on top of the washers and center it over the cab. See *Figure 3-2*.

Note: If the cab has a radio antenna like this one the roof module will have to be installed approximately 2 inches (50mm) to the right of center to allow the antenna to stand up and brush past the roof module handle if it needs to bend back.

5. Place another flat washer on top of the Roof Rail and then install the longer mounting bolts provided with the installation kit.

Figure 3-2 Mount Rail on Spacer Washers



Spacer Washers

6. Tighten the Roof Rail securely with a 24mm socket and ratchet. See *Figure 3-3*.

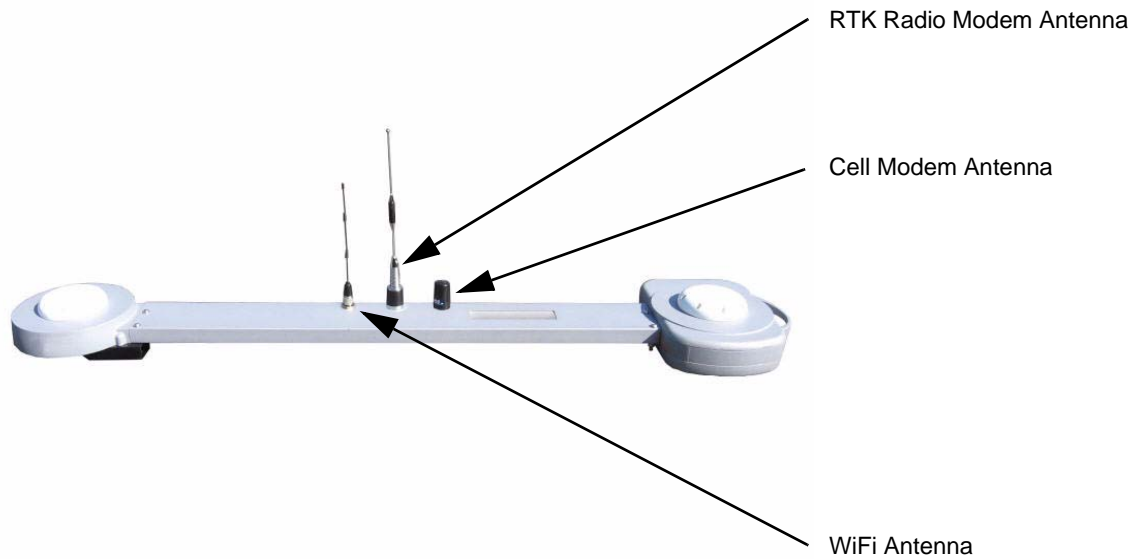
Figure 3-3 Tighten Rail Bolts



7. Attach the three antennas to the proper Roof Module antenna connections. See *Figure 3-4*.

Note: Hand tighten the connections. Do not over tighten.

Figure 3-4 Antennas Attached to the Roof Module



8. Place the Roof Module on the Roof Rail. See *Figure 3-5*.

Figure 3-5 Roof Module on Rail



9. Remove the locking pin from the Roof Rail. See *Figure 3-6*.

Note: Press the button on the end of the handle to allow the pin to be removed.

Figure 3-6 Removing the Locking Pin



Locking Pin Button

10. Adjust the Roof Module position on the Roof Rail.
11. Re-insert the locking pin to lock the Roof Module onto the vehicle. See *Figure 3-7*.

Figure 3-7 Locking Pin Inserted



12. Confirm the Roof Module is secured to the Roof Rail by pulling on the Roof Module handle.
13. *Figure 3-8* shows the Roof Module installed.

Figure 3-8 Roof Module Installed



Display Installation

This **Display Installation** chapter contains information for installing and adjusting the Display in the following sections:

- *Introduction*
- *Installation Procedure*

Introduction

Note: The display components may be different depending on the model vehicle the installation is being performed upon.

Installation Procedure

1. Locate the accessory mounting bracket for the monitor on the front right corner cab post. See *Figure 4-1*.

Note: Alternative mounting locations can be used if the location shown is not available.

Note: If necessary remove installed Display brackets or hole covers.

Figure 4-1 Existing Display Bracket



Display Bracket

2. Remove the top half of the monitor bracket by unscrewing the large plastic wing nut as shown in *Figure 4-2*.

Figure 4-2 Removing Display Bracket Wing Nut



Wing Nut

3. Remove the two bolts retaining the bracket using a 17mm socket and ratchet. See *Figure 4-3*.

Figure 4-3 Removing Existing Bracket



Remove These Bolts

4. Place the supplied Display bracket on top of the existing Display bracket and re-install the two bolts using a 17mm socket and ratchet. See *Figure 4-4*.

Figure 4-4 Display Bracket Installed



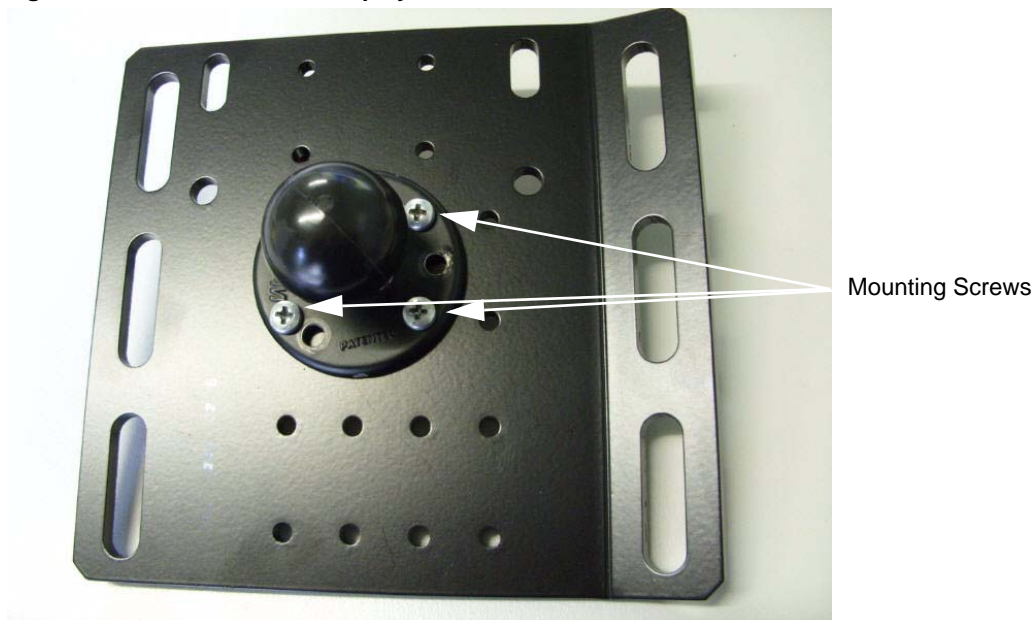
5. Replace the top half of the Display bracket by screwing in the large plastic wing nut as shown in *Figure 4-5*.

Figure 4-5 Display Bracket Wing Nut Attached



6. Attach the RAM mount to the Display bracket using the four screws and lock nuts provided. See *Figure 4-6*.
7. Tighten the RAM mount screws using a 3/8" wrench and #2 Phillips screwdriver.

Figure 4-6 RAM Mount on Display Bracket



Note: Refer to the Display User Manual for the remaining Display specific installation instructions.

Connecting System Cables

This **Connecting System Cables** chapter provides information for connecting the Main Cable Harness and the SA Module Cable Harness to the various vehicle and AutoSteer components in the following sections:

- *SA Module Harness*
 - *SA Module Connection*
 - *Wheel Angle Sensor Connection*
 - *Connecting the Kingpin Sensor*
 - *Steering Valve Connections*
 - *Electrohydraulic Steering Valve Connector*
 - *Steering Wheel Sensor Connection*
- *Main Cable Harness*
 - *Roof Module*
 - *Display*
 - *SAM Harness*
- *Power Supply Connection*
 - *Cab Power Connection*
 - *Battery Power Connection*
- *Install Warning Label*

SA Module Harness

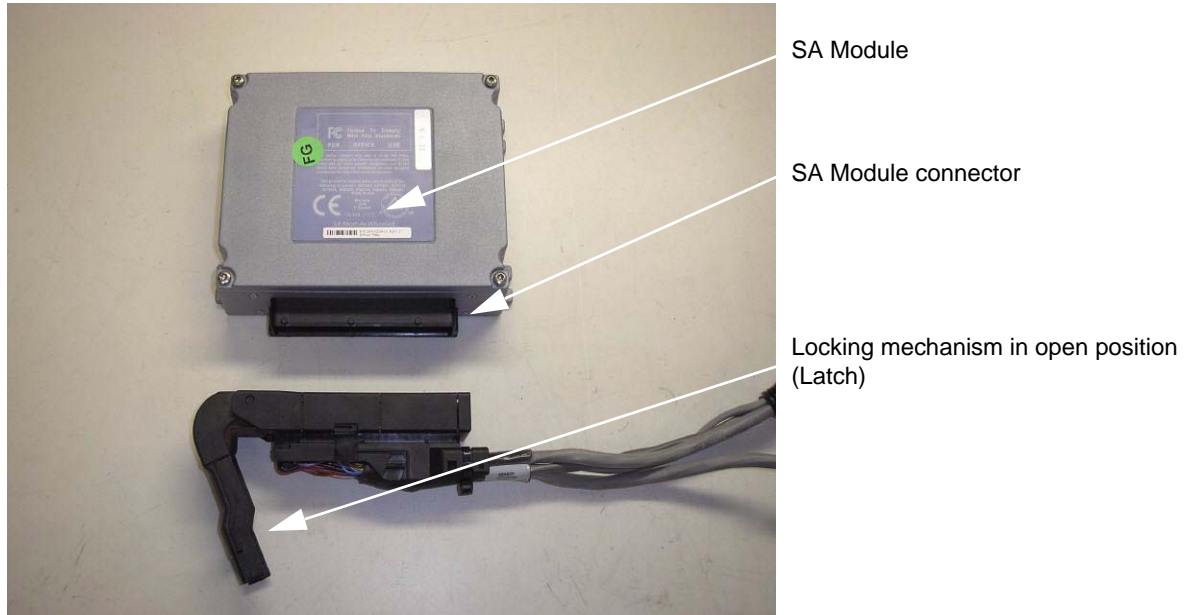
This **SA Module Harness** section contains the following sub-sections:

- *SA Module Connection*
- *Wheel Angle Sensor Connection*
- *Steering Valve Connections*

SA Module Connection

1. Align the SAM Harness connector to the SA Module. See *Figure 5-1*.
2. Open the connector latch lever. See *Figure 5-1*.

Figure 5-1 Connecting SA Module Connector



3. Press the harness connector onto the SA Module connector.

Note: You can damage the connectors if you force them into position. Do not force them together or use tools.

4. Press the latch lever closed until it clicks and locks the connector. See *Figure 5-2*.

Figure 5-2 Closing the SA Module Connector



Note: If you need to disconnect the SA Module connector, you must open the latch lever before attempting to pull the connectors apart.

5. *Figure 5-3* shows the SA Module Harness connected to the SA Module.

Figure 5-3 SA Module Connector (closed).



6. Route the SAM Data, SAM Power, Remote Engage and Steering Encoder connections into the cab through the grommet in the cab rear window right-hand side. See *Figure 5-4*.
7. Route the other half of the SAM harness under the cab towards the steering valve and wheel angle sensor on the left side. See *Figure 5-4*.

Figure 5-4 Routing the SA Module Harness into the Cab



Rubber Plug into Cab

8. Proceed to the *Wheel Angle Sensor Connection* procedure.

Wheel Angle Sensor Connection

Connecting the Kingpin Sensor

1. Locate the existing Wheel Angle Sensor and harness next to the left front wheel on the sprayer as shown in *Figure 5-5*.

Figure 5-5 Kingpin Sensor Connector Location



Kingpin Sensor Connector

2. Route the Wheel angle sensor wire to the front left wheel.
3. Unplug the existing sprayer harness from the wheel angle sensor. Lift the plastic latch before unplugging the connector. See *Figure 5-6*.

Note: You might need to remove a cover and cable clamp to get access to the wheel angle sensor connector.

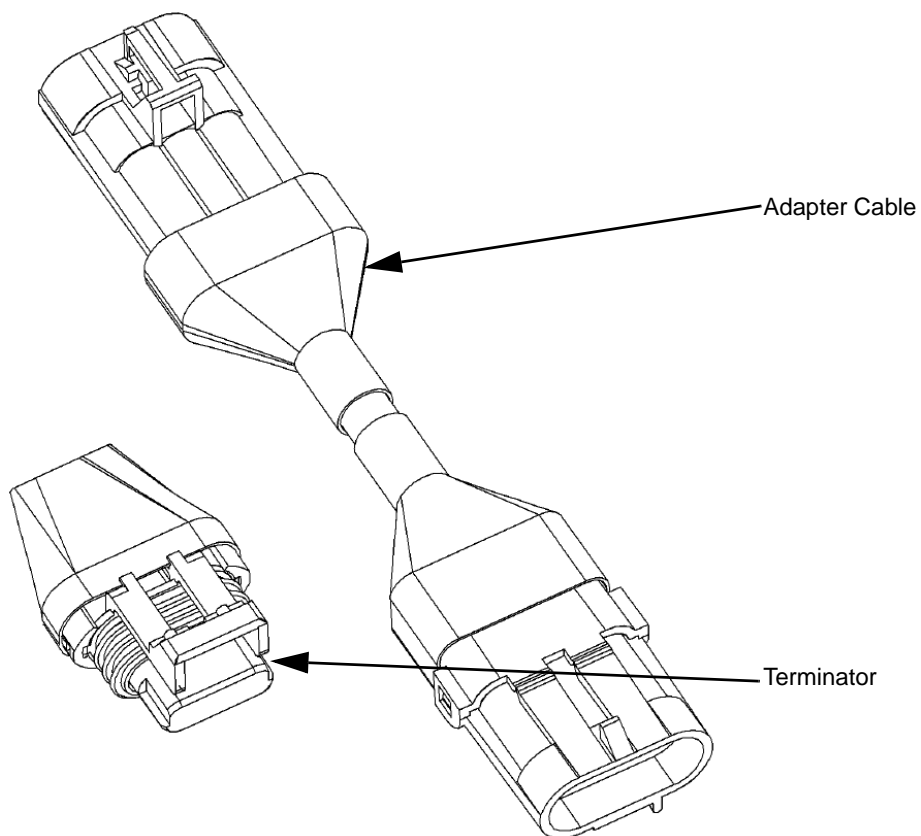
Figure 5-6 Existing Wheel Angle Sensor Connector



4. Connect the Wheel Angle Sensor adapter terminator. *Figure 5-7* shows the terminator.

Note: See the *Bracket Kit* section of the *Installation Overview* chapter for more information on the cable terminators.

Figure 5-7 Wheel Angle Sensor Terminator and Adapter Cable



5. Cover the end of the sprayer harness with the terminator.

Note: The termination should snap on the connector at the harness end.

6. Connect the Kingpin sensor connector to the SAM harness using the short adapter harness.
7. Secure all loose cables with cable ties. See *Figure 5-8*.

Figure 5-8 **Securing SA Module Harness Cable**



8. Replace any covers or parts removed during the installation.

Steering Valve Connections

This **Steering Valve Connections** section contains the following sub-sections:

- *Electrohydraulic Steering Valve Connector*

Electrohydraulic Steering Valve Connector

1. Route the Steering Valve connector towards the cab front left under the vehicle. The cables need to reach the engine bay rear left-hand side. See *Figure 5-9*.

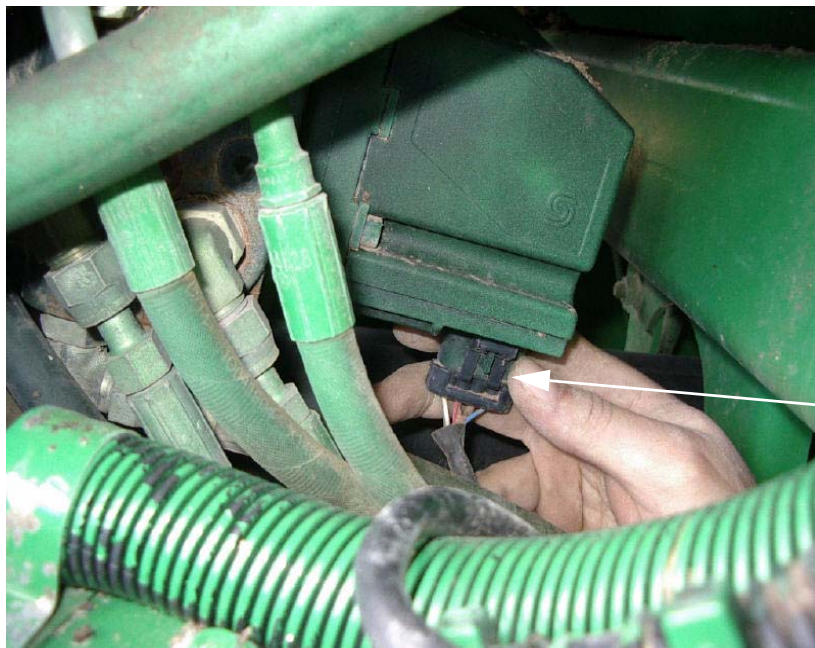
Figure 5-9 Routing Steering Valve Connector



Steering Valve Connector Location

2. Disconnect the existing JD connector from the JD electrohydraulic steering valve as shown in *Figure 5-10*.

Figure 5-10 Disconnecting the Electrohydraulic Steering Valve Connector



4-Pin Connector

3. Connect the JD cable connector to the terminator connector provided in your kit to protect the original connector. See *Figure 5-11*.

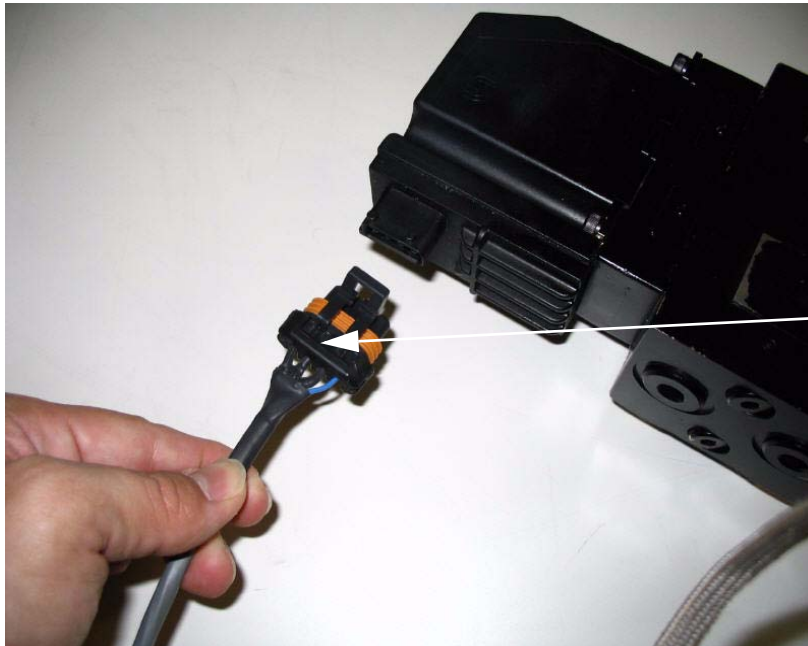
Note: The terminator connector is shipped in your kit attached to the SA Module Harness.

Figure 5-11 Steering Valve Terminator Connector (shown on workbench)



4. Connect the SAM harness to the valve as shown in *Figure 5-12*.

Figure 5-12 Connecting the SAM Harness Connector to the Electrohydraulic Steering Valve (shown on workbench)

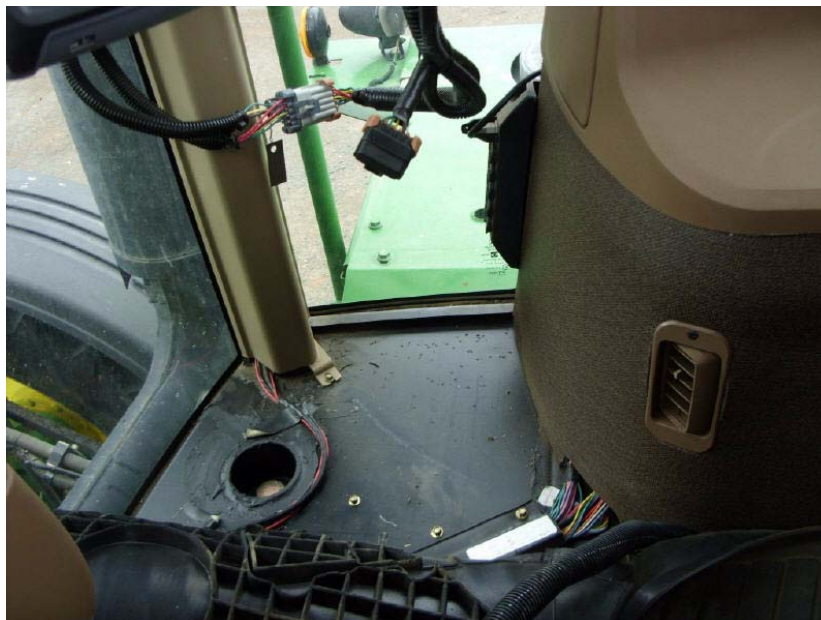


AutoSteer SAM Harness Connector

Steering Wheel Sensor Connection

1. Route the SA Module Harness Steering Encoder connector underneath the rubber floor mat from the cab rear window to the front right hand side of the Steering Console. See *Figure 5-13*.

Figure 5-13 Lifted Cab Floor Mat



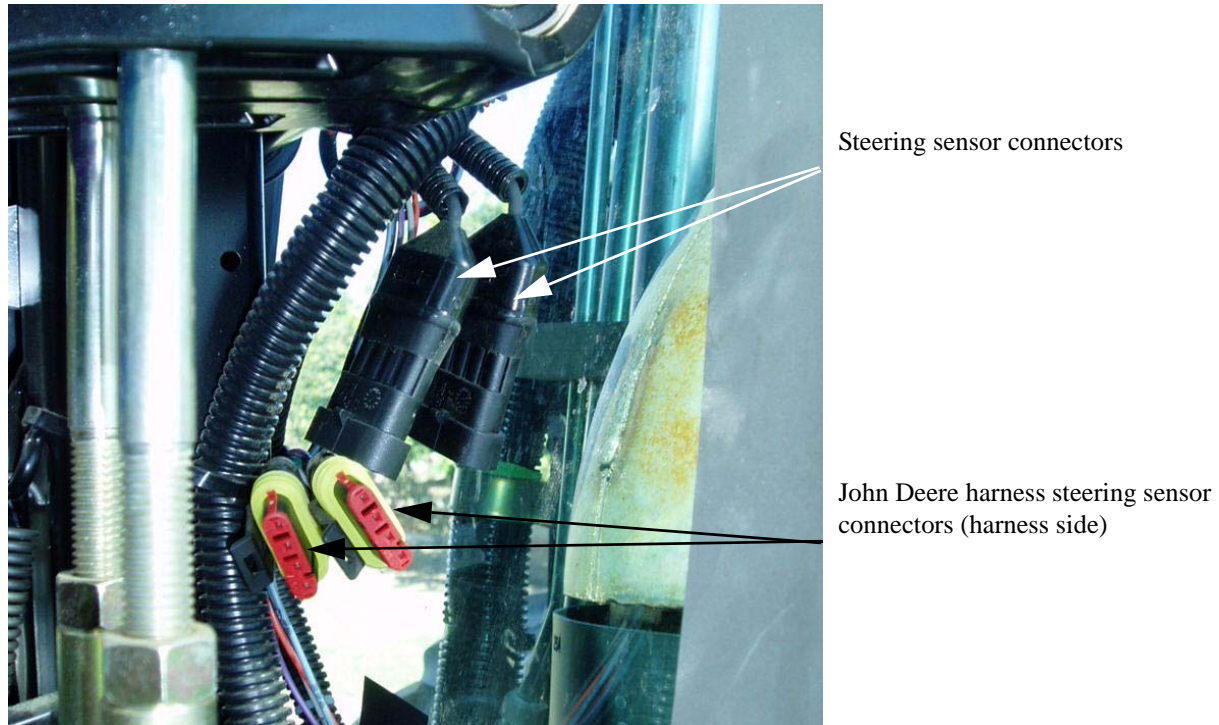
2. Remove the steering column plastic panel. See *Figure 5-14*.

Figure 5-14 Steering Column Plastic Panel



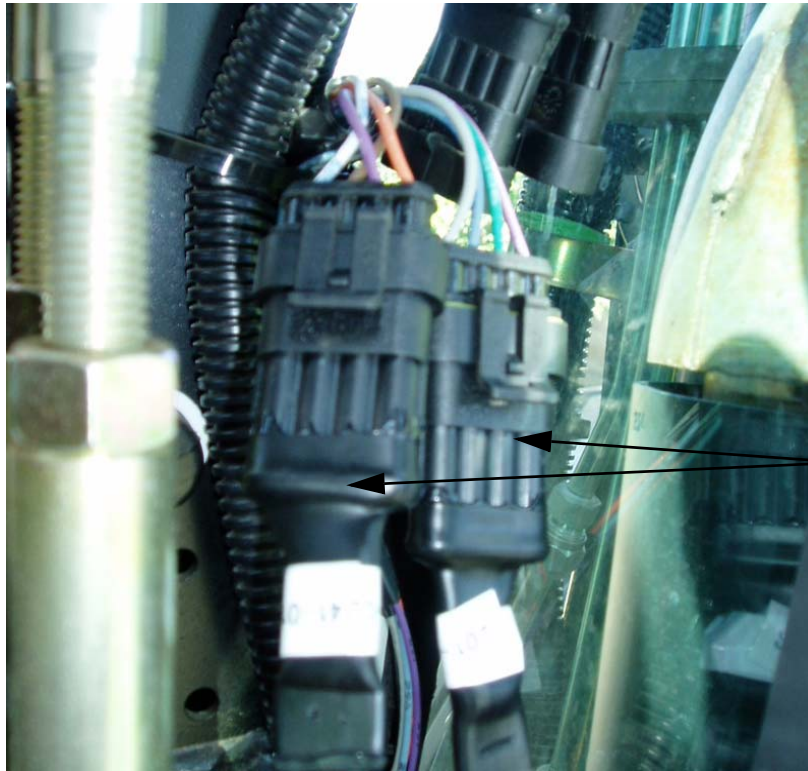
3. Locate and disconnect the existing John Deere steering encoder connectors. See *Figure 5-15*.

Figure 5-15 Steering Wheel Sensor Connectors Disconnected



4. Install the Terminator connectors on the two John Deere steering encoder harness connectors in any order. See *Figure 5-16*.

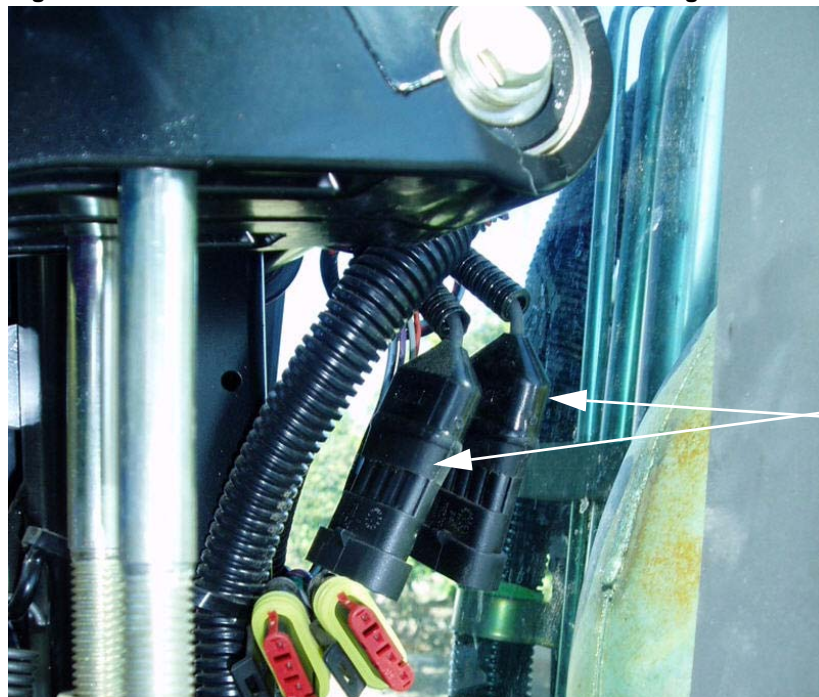
Figure 5-16 Steering Encoder Connector Terminator Connectors



Terminator Connectors

5. Connect the single AutoSteer SA Module Harness connector to either of the two John Deere steering encoder connectors. See *Figure 5-17*.

Figure 5-17 AutoSteer SAM Harness Connection to Steering Encoder



Connect AutoSteer SAM Harness
Connector to Either Connector

6. Replace the steering column plastic panel. See *Figure 5-18*.

Figure 5-18 Steering Column Plastic Panel



Plastic Panel

Main Cable Harness

This Main Cable Harness section contains the following sub-sections:

- *Roof Module*
- *Display*
- *SAM Harness*
- *Power Supply Connection*

Roof Module

1. Route the cable out the rear window right corner and secure with cable ties and P-clamps. See *Figure 5-19* and *Figure 5-20*.

Figure 5-19 Main Harness Exiting the Vehicle Cab



Figure 5-20 Routing Cable up the Cab



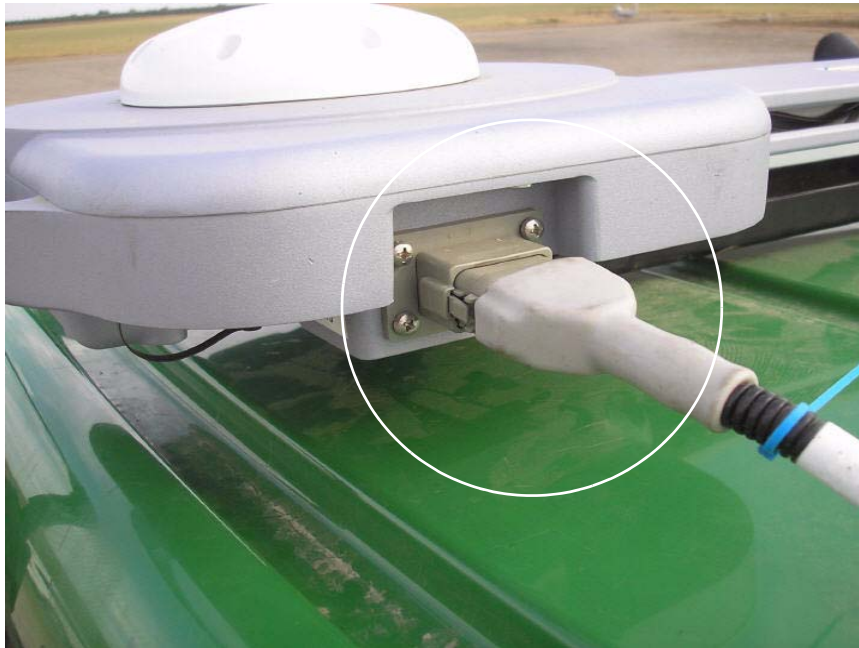
P- Clamp

2. Attach the cable to the Roof Module. See *Figure 5-21*.

Note: The Main Harness cable connector must be oriented correctly to engage the mating connector on the Roof Module. If the connector does not engage, do not force the connectors together.

Note: To remove the cable, press the two latches on the side of the connector while pulling the connector away from the Roof Module.

Figure 5-21 Roof Module Main Cable Harness Connection



3. Attach the LAN connector to the Roof Module. See *Figure 5-22*.

Note: Rotate the LAN connector sleeve clockwise to engage the connector and counterclockwise to disengage the connector.

Figure 5-22 LAN Connection



LAN Connector

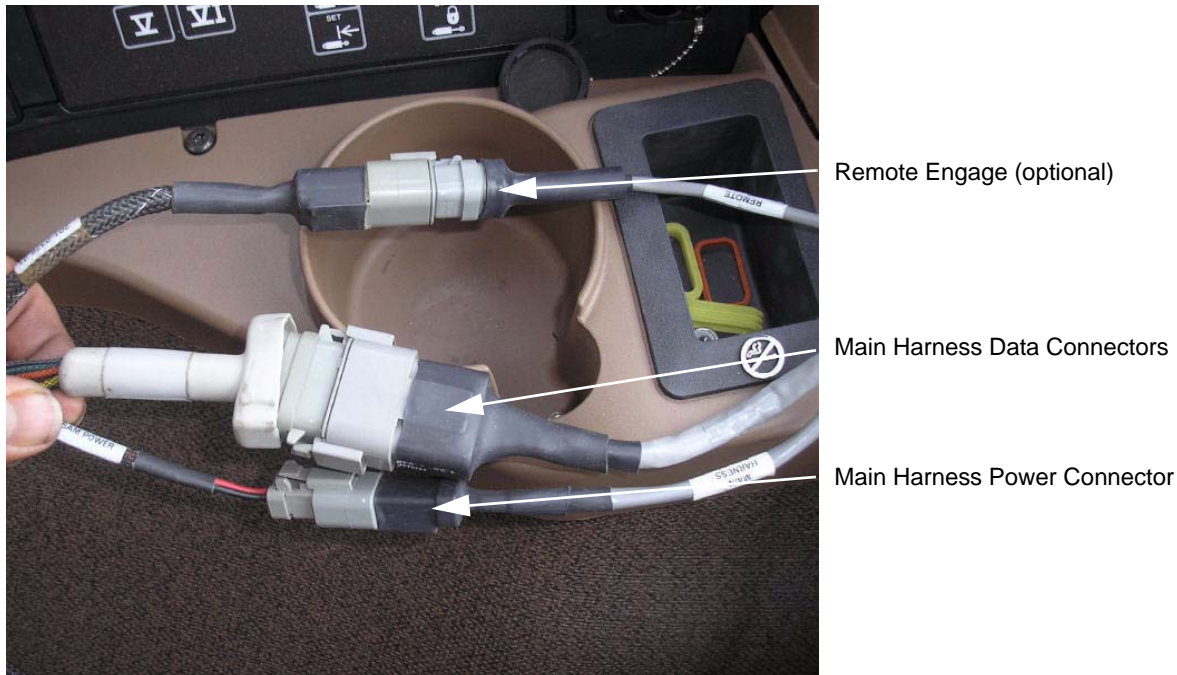
Display

Note: Refer to your Display Owner's manual for details on connecting the Display harness.

SAM Harness

1. Connect the 12-pin data and 2-pin power connectors between the Main Cable Harness and the SAM Harness. See *Figure 5-23*.

Figure 5-23 SAM Harness to Main Cable Harness Connections



Power Supply Connection

The following sub-sections describe basic instructions for connecting the AutoSteer system to available vehicle power sources:

- *Cab Power Connection*
- *Battery Power Connection*

Note: Refer to your display user manual before connecting the AutoSteer system to vehicle power.

The AutoSteer Main Cable Harness must be connected to a 3-pin 12V power source. Your Display User Manual provides specific instructions for connecting power to the AutoSteer system and specifies the appropriate vehicle power source.

Cab Power Connection

Locate a cab console 12V power outlet. See *Figure 5-24*.

Note: The exact location and type of power outlet is determined by your vehicle model.

2. Use a similar 12V accessory power connector if the Display manual specifies connecting to power inside the cab.

Figure 5-24 Cab 12V Power Outlet Example



Cab Power Connection

Battery Power Connection

Locate the vehicle battery. See *Figure 5-25*.

Note: The location of the battery is determined by your vehicle model.

Connect to the vehicle battery if the Display manual specifies a direct battery connection.

Figure 5-25 Vehicle Battery Location



Note: A battery cable is provided with the AutoSteer system when a direct battery connection is required.

Install Warning Label

Install one or more Warning labels on the cab window in a position that is easy to read and does not obstruct the driver's view of the road or surrounding obstacles. See *Figure 5-26*.

Note: Install the warning label with the language that best matches the operator's language. If necessary, install labels in multiple languages. Warning labels are provided in the following languages: English, French, German and Spanish.

Figure 5-26 Autosteer Warning Label



Post-Installation Procedures and Information

This **Post-Installation Procedures and Information** chapter contains information on procedures and processes that should be completed after the installation process is complete. The information for this chapter is contained in the following sections:

- *Verify the Vehicle is Ready for AutoSteer*
- *Calibration and Tuning Notes*

Verify the Vehicle is Ready for AutoSteer

1. Ensure all connectors are properly coupled.
2. Power ON the AutoSteer system.
3. Verify installation and system operation.

Calibration and Tuning Notes

Note: For optimal steering performance, the AutoSteer system must be fully calibrated and then tuned.

Select the appropriate John Deere AutoTrac vehicle model when setting up your vehicle on the AutoSteer system display.

Final Hardware Installation Checklist

This **Final Checklist** chapter contains the verifications steps necessary after the installation of the AutoSteer system.

Note: The Final Hardware Installation Checklist is on the back of this page. Tear this page out of your manual and fill in the checklist after the installation. You should keep a copy of this checklist for future reference when servicing the vehicle.

Machine Model: _____ Year: _____ Serial #: _____

Customer Name: _____

Location/Address: _____

AutoSteer Installation Kit Part Number: _____

NOTES

Name of Installer: _____ Date: _____

System Installation Checklist

- 1. Monitor Bracket Installed and all fasteners are tight. ☐
- 2. Roof rail is installed and all fasteners are tight. ☐
- 3. SA Module is installed and all fasteners are tight. ☐
- 4. All cable ends are connected. ☐
- 5. All cables are secured with cable ties. ☐
- 6. Manual steering is normal after the AutoSteer installation. ☐

AutoSteer Performance Checklist

- 1. Complete AutoSteer system calibration. ☐
- 2. Complete AutoSteer system tuning. ☐
- 3. Check total wheel angle sensor counts. ☐ Value_____
- 4. Line acquisition is satisfactory. ☐
- 5. On-line steering is satisfactory. ☐
- 6. Manual override (kick-out) is working. ☐
- 7. Steering speed from lock-to-lock is satisfactory. ☐ Value_____Sec.

Note: See the *Connecting System Cables* chapter for additional information.
